Reg. No.: Name



Mid-Term Examinations – November 2021

Programme	: SCSE	Semester	: Fall 2021-22
Course	: Fundamentals in AI and ML	Code	: CSA2001
Faculty	: Dr. S Saravanan	Slot/ Class No.	: D11+D12+D13/0047
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

Sub. **Question Description** Q.No. Marks Explain the Neuroscientists discovered some facts about how the brain works and the 1 (a) 5 ways in which it is similar to and different from computers. Define in your own words the following terms: agent, agent function, agent program, (b) rationality, autonomy, reflex agent, model-based agent, goal-based agent, utility-5 based agent, learning agent 2 Apply the concept Uninformed Search algorithm for solve (DFS,BFS,DLS(level-2)). 5 Apply the concept informed Search using A* algorithms solve below diagram with (b) explain. 5 Describe the Local Search Algorithms using state-space landscape. 3 5 (a) Solve the problem using concept crypt arithmetic method (b) 5 CROSS ROADS DANGER 5 Write an algorithm Alpha–Beta Pruning search then solve own example. 4 10 Describe the Forward and backward chaining algorithm with example

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